Inventor: Olivo, et al.

Methods and Compositions for
Detection of Segmented Negative
Strand RNA Viruses
Sheet 1 of 5

## MAP OF PLASMID pHH21 NP UTR luciferase

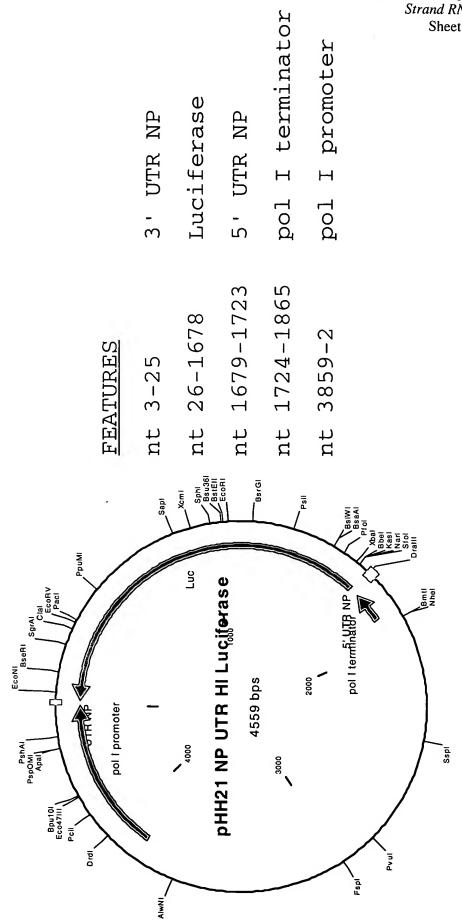
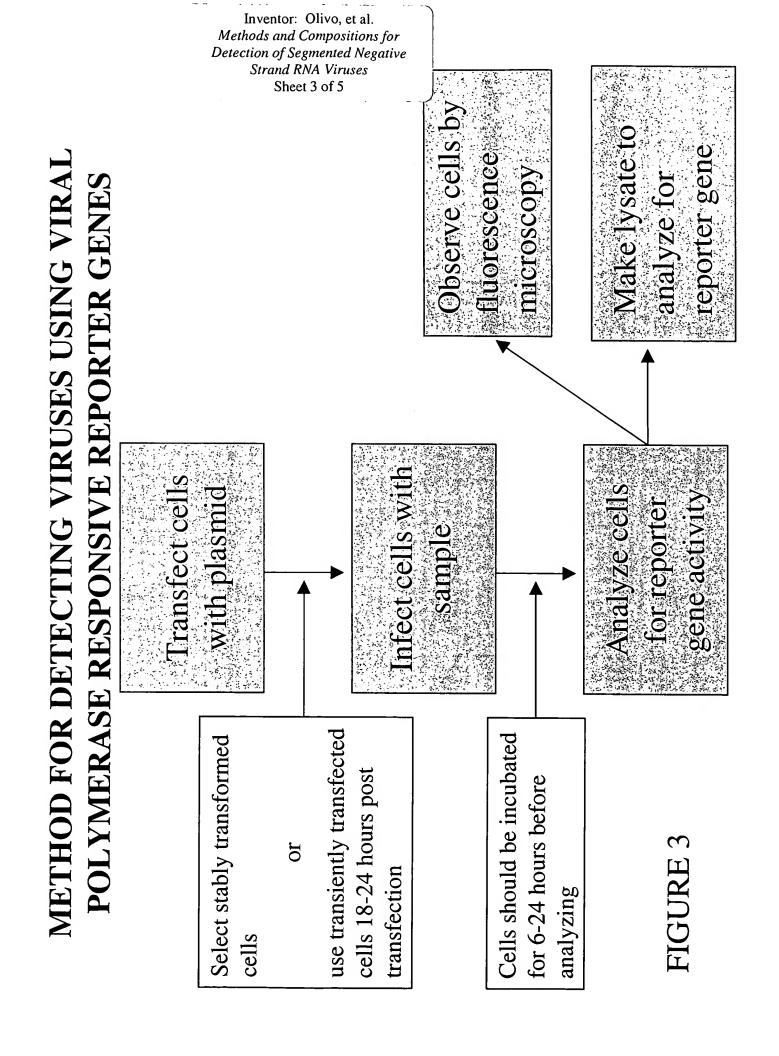


FIGURE 1

## Detection of Segmented Negative Strand RNA Viruses TRANSCRIPTION, REPLICATION AND TRANSLATION OF Sheet 2 of 5 A SEGMENTED NEGATIVE STRAND VIRUS ARTIFICIAL Host cell RNA pólymerase I enzyme transcribes a polymerase components A<sub>n</sub> 3'utr RNA molecule and transcribes it into containing sample or replicates it into a positive polarity Infect with virus-Viral polymerase recognizes the reporter gene containing RNA, introduce viral negative polarity RNA molecule CAP 5'utr SEGMENT FIGURE 2 Transfect cells with plasmid replication translation Viral polymerase replicates the + polarity RNA into - polarity RNA Reporter protein PHH21 NP UTR HI Lucillerase Od N (B) Fright and I lood 4559 bps 3'utr

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Methods and Compositions for



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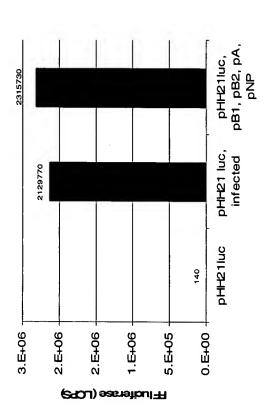


FIGURE 4

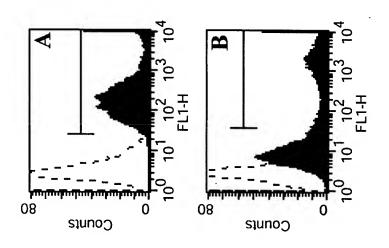


FIGURE 5